

CONICAL MOLDS AND TAMPER VERIFICATION PROCEDURE #4

January 20, 1997

Equipment Checked: **CONICAL MOLD, TAMPER (AASHTO T 84) (ASTM C128)**

Purpose:

This method provides instructions for checking the critical dimensions of the sand cone and tamper used in the above test method.

Inspection Equipment Required:

1. Calipers readable to 0.01 mm.
2. Balance, 500 g capacity, readable to 0.1 g.
3. Ruler, readable to 1 mm.

Tolerance:

Equipment shall meet the dimensional tolerances specified in the test method.

Procedure:

Cone

1. Measure the inside diameter at the top of the cone to the nearest 1 mm by taking two readings 90° apart using the ruler and record the results.
2. Invert the cone and repeat step 1.
3. Place the cone on a flat glass surface. Measure and record the depth of the cone.
4. Using the calipers, measure the thickness of the cone to the nearest 0.1 mm by taking 2 readings 90° apart at the top of the cone and 2 readings 90° apart at the bottom of the cone and record the results.

Tamper

1. Measure and record the diameter of the tamping face to the nearest 1 mm by taking two readings 90° apart using the ruler.
2. Determine and record the mass of the tamper to the nearest 0.1 g.

EQUIPMENT CALIBRATION RECORD

Calibration Procedure No. 4 Conical Mold And Tamper (AASHTO T 84)

Date:	Calibrated by:
Previous Calibration Date:	Next Due:
Frequency: 12 months	
Action recommended: Repair _____ Replace _____ None _____ Other _____	
Calibration Equipment	Serial Number
Steel ruler	
Calipers	
Balance, 500 g, readable to 0.1g.	

		Cone ID #		
Cone top inside dia.	37 to 43 mm	1.	1.	1.
		1.	1.	1.
		2.	2.	2.
		2.	2.	2.
Bottom inside diameter	87 to 93 mm	1.	1.	1.
		1.	1.	1.
		2.	2.	2.
		2.	2.	2.
Height	72 to 78 mm	1.	1.	1.
Wall thickness	0.8 mm minimum	1.	1.	1.
		1.	1.	1.
		2.	2.	2.
		2.	2.	2.

		Tamper ID#				
Weight	325 to 355 g	1.	1.	1.	1.	1.
		1.	1.	1.	1.	1.
Diameter of face	22 to 28 mm	1.	1.	1.	1.	1.
		2.	2.	2.	2.	2.
		2.	2.	2.	2.	2.